GUJARAT TECHNOLOGICAL UNIVERSITY
Bachelor of Engineering - SEMESTER - II EXAMINATION - SUMMER 2025

Subject Code: BE02000061 **Date: 19-06-2025**

Subject Name: Industrial Safety and Standards

Time: 10:30 AM TO 01:00 PM **Total Marks: 70**

Instructions
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

			Marks
Q.1	**(a)**	Define the role of management in safety.	**03**
	(b)	Explain fatigue wear.	**04**
	(c)	Discuss about the overhauling of electric motor and common troubles involved in it with remedies.	**07**
Q.2	**(a)**	Explain the role of lubricant.	**03**
	(b)	Define Frequency rate, Severity rate, Incidence rate and Activity rate.	**04**
	(c)	Describe the structure of hazard identification and risk assessment.	**07**
		OR	
	(c)	Define fire and explain in details about classification of fire.	**07**
Q.3	**(a)**	Give a classification of wear.	**03**
	(b)	Draw the decision tree for fault tracing in internal combustion engine.	**04**
	(c)	List out the types and applications of tools for maintenance.	**07**
		OR	
	(a)	List the methods for reduction of wear.	**03**
	(b)	Draw the decision tree to identify fault in electric motor.	**04**
	(c)	Define maintenance and explain different types of maintenance.	**07**
Q.4	**(a)**	Explain fault tracing.	**03**
	(b)	Explain the steps and procedure for periodic& preventive maintenance of pump.	**04**
	(c)	Explain in detail about mechanical hazards.	**07**
		OR	
	(a)	Draw a flow chart of fault-finding sequence.	**03**
	(b)	Explain the steps and procedure for periodic & preventive maintenance of air compressor.	**04**
	(c)	Explain in details of various causes for Industrial accidents.	**07**

Q.5 (a) Enlist the benefits of overhauling. 03

(b) Explain different types of methods of lubrication. 04

(c) Explain decision tree and draw the steps involved in it with suitable sketch. 07

OR

(a) Define periodic maintenance. 03

(b) Explain in detail about Corrosion and its prevention methods. 04

(c) Explain in detail about the fault tracing analysis and its importance. 07

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